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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,421	07/07/2003	John M. Simmons	132781 7453		
23446	7590 06/22/2004		EXAM	EXAMINER	
MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET			BONCK, RODNEY H		
SUITE 3400		ART UNIT	PAPER NUMBER		

DATE MAILED: 06/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/614,421	SIMMONS, JOHN M.			
Office Action Summary	Examiner	Art Unit			
	Rodney H. Bonck	3681			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 07 July 2004 and 07 August 2003.					
	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1,4,8-11,14 and 18-20</u> is/are rejected. 7)⊠ Claim(s) <u>2, 3, 5-7, 12, 13, and 15-17</u> is/are obj. 8)□ Claim(s) are subject to restriction and/o	wn from consideration ected to.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>07 July 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

Art Unit: 3681

DETAILED ACTION

The following is a first action on the merits of application Serial No.10/614,421, filed July 7, 2003 and amended in the preliminary amendment filed August 7, 2003.

Drawings

The proposed drawing corrections filed August 7, 2003 are approved.

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "tension spring", recited in claims 8 and 18, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the

Art Unit: 3681

changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 2 and 3 are objected to because of the following informalities:

There is no proper antecedent basis for "said clutch release", recited in line 4 of claim 2 and line 4 of claim 3. It appears that "said clutch release" should be – said clutch release mechanism --.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 8 and 18 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Specifically, it is unclear from the disclosure how a "tension" spring would be incorporated in the clutch.

Art Unit: 3681

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 10, 11, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (page 2, paragraph [05]) in view of Siczek et al. ('046) and Randolph et al. ('763). Applicant acknowledges that it is known in the prior art to provide a drive system for an imaging device including a curved arm, a carrier, a belt, and a driving system having a motor. The Siczek et al. device shows such an arrangement wherein the drive pulley 64 (Fig. 5) is coupleable to the drive motor through a clutch 67. Additionally, Randolph et al. suggest providing a clutch 34 permitting manual operation, as in an emergency, without having to back drive the motor. When the prior art is considered as a whole, it would have been obvious to provide a clutch and clutch release mechanism in the prior art C-arm drive disclosed by applicant, the motivation being to permit manual positioning of the C-arm.

Claims 4, 9, 14, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art in view of Siczek et al.('046) and Randolph et al.('763) as applied to claims 1, 10, 11, and 20 above, and further in view of Gorman('486). In providing a releasable clutch in the prior art C-arm drives, it would have been obvious in further view of Gorman to provide a handle-operated clutch

Art Unit: 3681

release, the motivation being to allow for manual release of the clutch to permit repositioning of the C-arm, e.g., in an emergency, such as a power loss.

Allowable Subject Matter

Claims 2, 3, 5-7, 12, 13, and 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Watanabe('713) is cited to show a clutch in an imaging device that permits manual repositioning. Negrelli et al.('229) is cited to show the clutch release in Fig. 6. Hanks et al.('916) and Maurice et al.('507) are cited to show clutches that use drive balls. Pattee('667), Hanover('909), and Narita('069) show other C-arm drive arrangements.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney H. Bonck whose telephone number is (703)-308-2904. The examiner can normally be reached on Monday-Friday 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (703)-308-0830. The fax phone

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 3681

number for the organization where this application or proceeding is assigned is 703-

Page 6

872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Rodney H. Bonck Primary Examiner Art Unit 3681

rhb June 16, 2004